STATEMENT

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

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| Application Number | 09/972,035 |
|------------------------|--------------------------------|
| Filing Date | October 4, 2001 |
| First Named Inventor | Daniel Albert WETTSTEIN et al. |
| Group Art Unit | 1653 |
| Examiner Name | |
| Attorney Docket Number | 1907.03 |

| | | | | U.S. PATENT DOCUM | MENTS | |
|-----------------------|--------------------------|---|--|--|--|--|
| Examiner Initials' | Cite No. ¹ | U.S. Patent Documents Number Kind Code ² (if known) | | Name of Patentee or Applicant of Cited Documents | Date of Publication of Cited Document MM-DD-YYYY | Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear |
| MA | A1 | 09/971,549 | | Zavitz et al. | 10-04-2001 | |
| 1 | A2 | 6,274,312 | | Gish et al. | 08-14-2001 | |
| | А3 | 6,248,523 | | Cohen et al. | 06-19-2001 | |
| | A4 | 5,892,016 | | La Brie et al. | 04-06-1999 | |
| (10) | A5 | 5,891,668 | | Li et al. | 04-06-1999 | |
| U | A6 | 5,807,995 | | Cohen et al. | 09-15-1998 | |

| | | OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS | |
|------------------------------|-----|---|-----|
| Examiner Cite Initials* No.1 | | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, volume-issue number(s), page(s), publisher, city and/or country where published. | . 1 |
| W | B1 | PARENT, Leslie J., et al., "Positionally Independent and Exchangeable Late Budding Functions of the Rous Sarcoma Virus and Human Immunodeficiency Virus Gag Proteins", <i>Journal of Virology</i> , September 1995; 69(9):5455-5460 | |
| | B2 | NCBI Entrez Protein Database Accession No.: AAB38034, December 5, 1996 | ┸ |
| | В3 | ZHANG, Yi-Ming, et al., "Drug Resistance during Indinavir Therapy Is Caused by Mutations in the Protease Gene and in Its Gag Substrate Cleavage Sites", <i>Journal of Virology</i> ", September 1997; 71(9):6662-6670 | |
| | B4 | PUFFER, Bridget A., et al., "Equine Infectious Anemia Virus Utilizes a YXXL Motif within the Late Assembly Domain of the Gag p9 Protein", <i>Journal of Virology</i> , September 1997; 71(9):6541-6546 | |
| | B5 | NCBI Entrez Protein Database Accession No.: AAB83138, November 6, 1997 | ļ |
| | B6 | NCBI Entrez Protein Database Accession No.: AAB83216, November 6, 1997 | 1 |
| | B7 | NCBI Entrez Protein Database Accession No.: AAB83821, November 6, 1997 | 1 |
| | B8 | YASUDA, Jiro, et al., "A Proline-Rich Motif (PPPY) in the Gag Polyprotein of Mason-Pfizer Monkey Virus Plays a Maturation-Independent Role in Virion Release", <i>Journal of Virology</i> , May 1998; 72(5):4095-4103 | |
| | B9 | NCBI Entrez Protein Database Accession No.: P35962, July 15, 1998 | |
| | B10 | CRUMP, Colin M., et al., "Inhibition of the Interaction between Tyrosine-based Motifs and the Medium Chain Subunit of the AP-2 Adaptor Complex by Specific Tyrphostins", <i>The Journal of Biological Chemistry</i> , October 23, 1998; 273(43):28073-28077 | |
| | B11 | PUFFER, Bridget A., et al., "Equine Infectious Anemia Virus Gag Polyprotein Late Domain Specifically Recruits Cellular AP-2 Adapter Protein Complexes during Virion Assembly", Journal of Virology, December 1998; 72(12):10218-10221 | |
| | B12 | SORKINA, Tatiana, et al., "Clathrin, adaptors and eps15 in endosomes containing activated epidermal growth factor receptors", <i>Journal of Cell Science</i> , 1999; 112:317-327 | |
| | B13 | YUAN, Bing, et al., "Mutations altering the Moloney murine leukemia virus p12 Gag protein affect virion production and early events of the virus life cycle", <i>The EMBO Journal</i> , 1999; 18(17):4700-4710 | |
| 1 | B14 | NCBI Entrez Protein Database Accession No.: AAD03232, January 6, 1999 | |
| | B15 | NCBI Entrez Protein Database Accession No.: AAD03240, January 6, 1999 | ſ |

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| | BE ? | | | |
|-------|-------|-----|--|-------------|
| O FEB | 1 2 2 | B16 | GARNIER, Laurence, et al., "Identification of Retroviral Late Domains as Determinants of Particle Size", <i>Journal of Virology</i> , March 1999; 73(3):2309-2320 | |
| | MA | B17 | HARTY, Ronald N., et al., "A Proline-Rich Motif within the Matrix Protein of Vesicular Stomatitis Virus and Rabies Virus Interacts with WW Domains of Cellular Proteins: Implications for Viral Budding", <i>Journal of Virology</i> , April 1999; 73(4):2921-2929 | |
| , | | B18 | CRAVEN, Rebecca C. et al., "Late Domain Function Identified in the Vesicular Stomatitis Virus M Protein by Use of Rhabdovirus-Retrovirus Chimeras", <i>Journal of Virology</i> , April 1999; 73(4):3359-3365 | TECP |
| | | B19 | HARVEY, Kieran F., et al., "Nedd4-like proteins: an emerging family of ubiquitin-protein ligases implicated in diverse cellular functions", <i>Trends in Cell Biology</i> , May 1999; 9:166-169 | CENTER 1600 |
| | | B20 | DESCHAMBEAULT, Julie, et al., "Polarized Human Immunodeficiency Virus Budding in Lymphocytes Involves a Tyrosine-Based Signal and Favors Cell-to-Cell Viral Transmission", <i>Journal of Virology</i> , June 1999; 73(6):5010-5017 | |
| | | B21 | NCBI Entrez Protein Database Accession No.: AAF35354, February 23, 2000 | |
| | | B22 | ALEXANDER, Louis, et al., "Unusual Polymorphisms in Human Immunodeficiency Virus Type 1 Associated with Nonprogressive Infection", <i>Journal of Virology</i> , May 2000; 74(9):4361-4376 | |
| | | B23 | BUTKIEWICZ, Nancy, et al., "Virus-Specific Cofactor Requirement and Chimeric Hepatitis C Virus/GB Virus B Nonstructural Protein 3" <i>Journal of Virology</i> , May 2000; 74(9):4291-4301 | |
| | | B24 | ACCOLA, Molly A., et al., "Efficient Particle Production by Minimal Gag Constructs Which Retain the Carboxy-Terminal Domain of Human Immunodeficiency Virus Type 1 Capsid-p2 and a Late Assembly Domain", <i>Journal of Virology</i> , June 2000; 74(12):5395-5402 | |
| | | B25 | YUAN, Bing, et al., "Infectivity of Moloney Murine Leukemia Virus Defective in Late Assembly Events Is Restored by Late Assembly Domains of Other Retroviruses", <i>Journal of Virology</i> , August 2000; 74(16):7250-7260 | |
| | | B26 | NCBI Entrez Protein Database Accession No.: CAB92786, September 20, 2000 | |
| | | B27 | JAYAKAR, Himangi R., et al., "Mutations in the PPPY Motif of Vesicular Stomatitis Virus Matrix Protein Reduce Virus Budding by Inhibiting a Late Step in Virion Release", <i>Journal of Virology</i> , November 2000; 74(21):9818-9827 | |
| | 4 | B28 | STRACK, Bettina, et al., "A role for ubiquitin ligase recruitment in retrovirus release", <i>PNAS</i> , November 21, 2000; 97(24):13063-13068 | |
| | | B29 | SCHUBERT, Ulrich, et al., "Proteasome inhibition interferes with Gag polyprotein processing, release, and maturation of HIV-1 and HIV-2", <i>PNAS</i> , November 21, 2000; 97(24):13057-13062 | |
| | | B30 | PATNAIK, Akash, et al., "Ubiquitin is part of the retrovirus budding machinery", PNAS, November 21, 2000; 97(24):13069-13074 | |
| | | B31 | VOGT, Volker M., "Ubiquitin in retrovirus assembly: Actor or bystander?", <i>PNAS</i> , November 21, 2000; 97(24):12945-12947 | |
| | | B32 | HARTY, Ronald N., et al., "A PpxY motif within the VP40 protein of Ebola virus interacts physically and functionally with a ubiquitin ligase: Implications for filovirus budding", PNAS, December 5, 2000; 97(25):13871-13876 | |
| | | B33 | NCBI Entrez Protein Database Accession No.: AAD17020, June 1, 2001 | 1— |
| | | B34 | VERPLANK, Lynn, et al., "Tsg101, a homologue of ubiquitin-conjugating (E2) enzymes, binds the L domain in HIV type 1 Pr55Gag", PNAS, July 3, 2001; 98(14):7724-7729 | |
| | | B35 | GARRUS, Jennifer E., et al., "Tsg101 and the Vacuolar Protein Sorting Pathway Are Essential for HIV-1 Budding", <i>Cell</i> , October 5, 2001; 107:55-65 | |

| Examiner Signature | . HM | / | Date Considered | 6/23/03 |
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